## **Claims**

1. A quaternary compound, which conforms to the following structure:

$$A-(B-C)_x-A$$

wherein:

A is

CI 
$$\overset{\mbox{CH}_3}{\mid}$$
 R-C(O)-N(H)-(CH<sub>2</sub>)<sub>3</sub>-N $^+$ -  $\mid$  CH<sub>3</sub>

wherein;

R is alkyl having between 7 and 27 carbon atoms, and includes linear, branched,, saturated, unsaturated and polyunsaturated;

B is -CH<sub>2</sub>CH(OH)CH<sub>2</sub>-

C is selected from the group consisting of

and

$$CH_{3} \\ Cl^{-} / \\ CH_{2}\text{-}CH_{2}\text{-}(CH_{2})_{7}\text{-}C(O)\text{-}N(H)\text{-}(CH_{2})_{3}.N^{+}\text{-}\\ | & | & | & | \\ CH & CH_{3} \\ / & | & | & | \\ CH_{3}(CH_{2})_{5}\text{-}CH & HC\text{--}(CH_{2})_{7}\text{-}C(O)\text{-}N(H) & CH_{3} \\ | & | & | & | & | \\ CH_{3}(CH_{2})_{5}\text{-}CH & CH_{2} & (CH_{2})_{3}\text{-}N^{+}\text{-}\\ | & | & | & | & | \\ CH_{2} & Cl^{-} & CH_{3} \\ \end{pmatrix}$$

wherein;

x is an integer ranging from 1 to 2000.

- 2. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>-.
- 3. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub> (CH<sub>2</sub>)<sub>8</sub>-
- 4. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>10</sub>-
- 5. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>12</sub>-.
- 6. A quaternary compound of claim 1 wherein R is  $-CH_3(CH_2)_{14}$ -
- 7. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>-
- 8. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>18</sub>-.
- 9. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>20</sub>-
- 10. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>22</sub>-
- 11. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>24</sub>-.
- 12. A quaternary compound of claim 1 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>26</sub>-

13. A process for conditioning hair, which comprises contacting the hair with an effective conditioning concentration of a quaternary compound, which conforms to the following structure:

$$A-(B-C)_x-A$$

wherein:

A is

Cl
$$^{-}$$
 CH<sub>3</sub> | R-C(O)-N(H)-(CH<sub>2</sub>)<sub>3</sub>-N $^{+}$ - | CH<sub>3</sub>

wherein;

R is alkyl having between 7 and 27 carbon atoms, and includes linear, branched,, saturated, unsaturated and polyunsaturated;

B is -CH<sub>2</sub>CH(OH)CH<sub>2</sub>-

C is selected from the group consisting of:

and

wherein;

x is an integer ranging from 1 to 2000.

- 14. A process of claim 13 wherein said effective conditioning concentration ranges from1.0% to 25% by weight.
- 15. A process of claim 13 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>12</sub>-.
- 16. A process of claim 13 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>-
- 17. A process of claim 13 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>18</sub>-.
- 15. A process of claim 14 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>12</sub>-.
- 16. A process of claim 14 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>-
- 17. A process of claim 14 wherein R is -CH<sub>3</sub>(CH<sub>2</sub>)<sub>18</sub>-.